

SRPP (Glass-Filled Polypropylene)

SRPP is a **glass-filled polypropylene sheet material** commonly used in FRC, often supplied or popularized through vendors like West Coast Products.

What It Is

SRPP is a reinforced plastic made from:

- Polypropylene base material
- Glass fiber reinforcement

This combination makes it significantly stronger and stiffer than standard plastic sheet.

Why FRC Teams Use SRPP

SRPP is used because it:

- Is lightweight compared to aluminum
 - Has good stiffness for a plastic material
 - Is impact resistant and durable
 - Does not crack as easily as brittle plastics
 - Is easy to cut and machine
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Common Applications

- Robot structural plates
 - Mounting plates and brackets
 - Intake side plates
 - Lightweight gearbox or mechanism plates
 - Non-metal structural components
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Manufacturing Notes

- Don't cut it with the CNC, use the laser cutter instead.

- Drills cleanly with proper speed and sharp bits if you heat up the edges with the flamethrower afterwards.
 - Works well with bolts and rivets if you use large washers
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Limitations

- Not as strong as aluminum in high-load structural areas
 - Can flex under heavy drivetrain loads
 - Edge quality matters for strength (avoid rough cuts)
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Key Idea

SRPP is a lightweight, glass-filled plastic sheet material used in FRC as a strong alternative to aluminum plates in lower-to-medium load applications, especially where weight savings matter.

Revision #3

Created 25 June 2026 20:55:54 by eharis

Updated 25 June 2026 20:59:37 by eharis